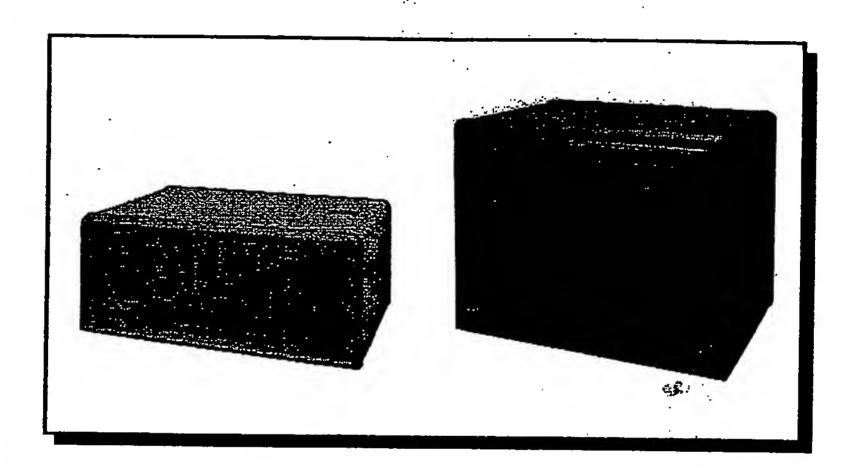


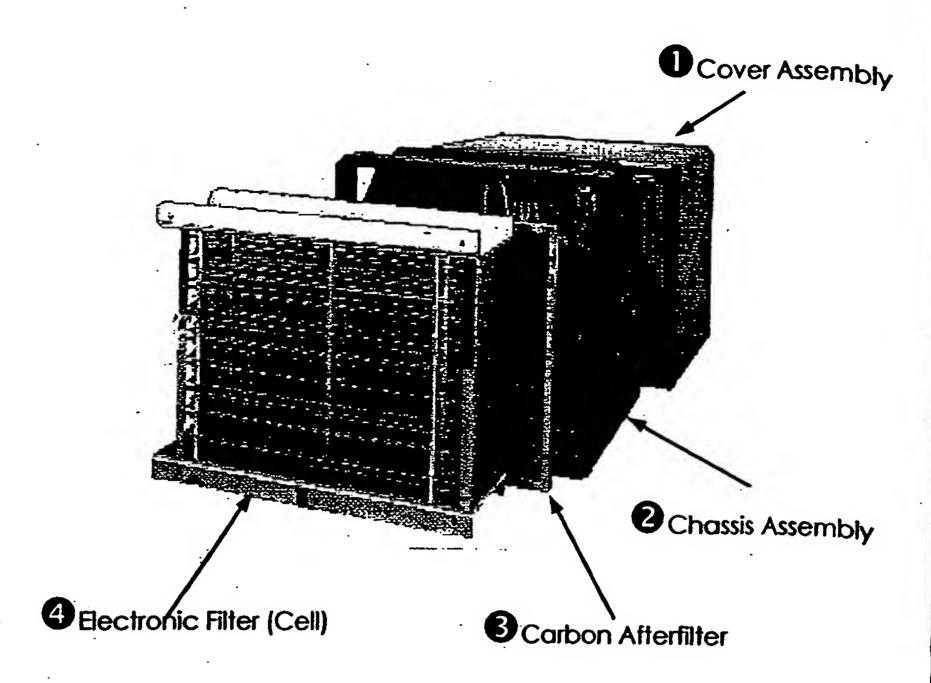
Portable electronic air cleaners

Operating and Service Manual Excel (120v) Maxum (120v) Excel 230 (230v) Maxum 230 (230v)



LakeAir International, Inc. 1509 Rapids Dr. Racine, WI 53404 Ph: 262-632-1229 Fax: 262-632-3144 http://www.lakeair.com

DESCRIPTION OF PARTS



- 1. COVER ASSEMBLY: The vinyl covered metal cover assembly is secured to the chassis by means of two screw fasteners on top of the unit. The cover assembly includes the two grille sections.
- 2. CHASSIS: The chassis consists of the base of the Excel and Maxum and has several components of the unit attached to it. The motor and fan, power supply, control switch, and all internal wiring are found in the chassis.
- 3. CARBON AFTERFILTER: The carbon afterfilter is standard in all Excel and Maxum units and is used as an afterfilter to remove objectionable odors from the cleaned air.
- 4. ELECTRONIC FILTER (CELL): This is the workhorse of the LakeAir Air Cleaner and performs the major function of the air cleaner by removing the particles from the air. The cell is activated by the power supply and is designed to remove even the smallest particles, down to 0.01 microns in size, or 1/25,400 of 1 inch.

345

HOW A LakeAir UNIT WORKS

In business establishments or in y our home, millions of airborne particles are continually being circulated in the air you breathe. A LakeAir Electronic Air Cleaner removes these smoke, dust, dirt, and pollen particles with an electrostatic process that works this way:

1. The internal circulating fan draws the dirty air into the system

where it first must pass through the outer grille.

2. The air then passes into the ELECTRONIC CELL where it encounters the IONIZING SECTION with its many fine ion wires. These wires charge the airborne particles by exciting them with a high electrical charge. As the charged particles move along to the collecting section, they are trapped by the collector plates much like a magnet attracts and collects metal filings.

3. The ACTIVATED CARBON AFTER FILTER, the final filter in the system, removes odors and freshens the air.

4. The cleaned and purified air is then returned to the room environment.

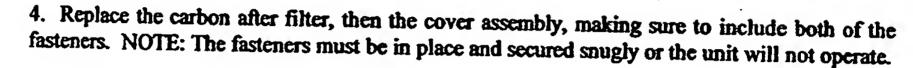
SPECIFICATIONS

EXCEL	EXCEL 230	MAXUM	MAXUM 230
120v 60 Hz 72 Watts	230v 50 Hz 72 Watts	120v 60 Hz 102 Watts	230v 50 Hz 102 Watts
Low: 70 cfm High: 110 cfm	Low: 21 m3/min. High: 34 m3/min.	Low: 210 cfm High: 275 cfm	Low: 65 m3/min. High: 85 m3/min.
.17" x 8" x 15:	43cm x 20cm x 38 17" x 13" x 15		43cm x 33cm x 38cm
17lbs;	7.7 kg	24 lbs.	10.9kg
18" x 9" x 15"	48cm x 30cm x 38cm	18: x 15" X 16"	49cm x 38cm x 41cm
22 lbs	9.9 kg	29 lbs.	13.2 kg
	120v 60 Hz 72 Watts Low: 70 cfm High: 110 cfm 17" x 8" x 15: 17lbs.	120v 60 Hz 72 Watts Low: 70 cfm High: 110 cfm High: 34 m3/min. 17" x 8" x 15: 43cm x 20cm x 38 17lbs. 7.7 kg 18" x 9" x 15" 48cm x 30cm x 38cm	120v 60 Hz 72 Watts 120v 60 Hz 72 Watts 120v 60 Hz 102 Watts 102 Watts Low: 70 cfm High: 110 cfm High: 34 m3/min. Low: 210 cfm High: 275 cfm 17" x 8" x 15: 43cm x 20cm x 38 17" x 13" x 15" 17lbs. 7.7 kg 24 lbs.

UNPACKING AND OPERATING INSTRUCTIONS

In order to operate your LakeAir Air Cleaner properly, it is necessary to remove plastic packing material from the carbon afterfilter inside the unit. Follow the step-by-step instructions and you will soon be enjoying clean fresh air.

- 1. Remove the two fasteners from the top of the cabinet using a Phillips head screwdriver.
- 2. Lift the cover assembly from the chassis and set aside.
- 3. Remove the carbon afterfilter from behind the cell. Take off the protective packing material and discard.



Place your LakeAir Air Cleaner in a convenient area in the desired room. If you are using the air cleaner for a specific purpose, such as smoke removal, locate the air cleaner as close as possible to the source. (Such as near a smoking stand.) Care should be taken to allow at least 4-6" of unobstructed space behind the unit so that it will exhaust freely into the room. If, however, you position the unit so that the airflow is parallel to the nearest wall, you need not allow as much free space. For best results the unit should be elevated by placing it on a table or stand. It can also be mounted on a wall, using our convenient wall mount option.

Plug the line cord into a standard household outlet with 120V AC 60 Hz (230 models require 230 V AC 50 Hz). Caution should be taken to use the unit only on the required voltage, as to do otherwise will void the warranty.

OPERATING AND MAINTENANCE INSTRUCTIONS

Position the unit and plug it into the proper line voltage before turning it on.

1. To turn unit on, locate the three-position rocker switch on top of the unit. Depress the button to activate the unit on the desired speed; High, Low, or Off (center, flat position). Under normal conditions, the Low position is adequate to keep an average size room clean. With excessive amounts of dust, smoke, or other pollutants present, the air cleaner should be operated on high.

2. To shut the unit off, simply push the button to its center (flat) position and unplug the unit from the line voltage.

NOTE: It should be noted that occasionally a large particle will pass through the electronic cell and an arcing will occur, resulting in an audible cracking sound. This is normal and will not cause any damage to the unit.

Maintenance

contakeAir Air Cleaner is a high quality,
estion piece of equipment designed for long
of satisfactory performance. Adhere to a
color maintenance schedule and no problems
hald occur. This unit should be checked
clodically for "dust load" and cleaned if
ound to have a large accumulation of dust and
in Under regular conditions cleaning can be
the once every 1 or 2 months. Under other
the severe conditions more frequent cleaning
may be required. To obtain maximum
efficiency from your LakeAir Electronic Air
cleaner it must be kept clean.

In addition to the grilles and electronic cell, care should be taken to keep the rest of the unit clean as well.

Disassembly and Cleaning

Turn off unit and disconnect line cord from outlet.

- 2. Remove fasteners from cover assembly.
- 3. Lift cover from chassis.
- 4. Remove ground screw from base of chassis connecting chassis to the electronic cell. Lift cell from chassis, being careful not to bend any of the plates on the electronic cell.
- 5. The electronic cell may be cleaned in a number of ways, but the best way is to soak it in a container of hot water into which has been dissolved a cup of dishwasher detergent or other cleaner that is safe for aluminum. After soaking for 10-15 minutes, agitate the filter (cell) in the solution to release some of the particles. Alkaline cleaners, such as our LA-99 leavy duty cleaning solution, may be used with the Be certain to read and follow all directions carefully to avoid damage to the aluminum cell components caused by harsh themical agents. LA-99 can be obtained through your dealer or by calling LakeAir directly.
- It may be necessary, if the cell is extremely dirry, to repeat the soaking process or to take a small soft brush to the plates of the cell.

If this is done, care should be taken not to damage the plates or the fine ion wires between the widely spaced plates on the ionizer section of the cells. After soaking, rinse off all traces of the detergent with clean warm water and allow the excess to drain off. Before replacing the cell into the chassis, make sure the cell is completely dry.

- 7. The electronic cell may also be washed in the normal cycle of a household dishwasher, but caution should be taken to avoid damage to the closely spaced plates of the unit.
- 8. Do not wash the carbon afterfilter. This filter should be brushed or cleaned with a vacuum cleaner if any dust is present. This filter should also be replaced when there is an indication that it is no longer absorbing odors. Normal replacement is approximately every 4-6 months.

NOTE: TO INSURE PROPER OPERATION, FILTERS SHOULD BE CLEANED AT REGULAR INTERVALS. FAILURE TO CLEAN ELECTRONIC FILTER WILL VOID WARRANTY.

Reassembly

- 1. Place the dry electronic filter (cell) back on the chassis, making sure the wider spaced plates (ionizer section) face the outside of the unit. Also make sure the handle is at the top of the unit.
- 2. Insert the ground screw in the proper location and tighten.
- 3. Place the carbon afterfilter back into the unit.
- 4. Replace the cover assembly and secure with the fasteners.
- 5. Before plugging the unit in, make sure the power button is in the Off position. Plug in the line cord and turn the unit on to the High or Low position. If arcing occurs, turn the unit off until the electronic filter cell has been dried completely.

Maintenance

Your LakeAir Air Cleaner is a high quality, precision piece of equipment designed for long years of satisfactory performance. Adhere to a regular maintenance schedule and no problems should occur. This unit should be checked periodically for "dust load" and cleaned if found to have a large accumulation of dust and lint. Under regular conditions cleaning can be done once every 1 or 2 months. Under other more severe conditions more frequent cleaning may be required. To obtain maximum efficiency from your LakeAir Electronic Air Cleaner it must be kept clean.

In addition to the grilles and electronic cell, care should be taken to keep the rest of the unit clean as well.

Disassembly and Cleaning

- 1. Turn off unit and disconnect line cord from outlet.
- 2. Remove fasteners from cover assembly.
- 3. Lift cover from chassis.
- 4. Remove ground screw from base of chassis connecting chassis to the electronic cell. Lift cell from chassis, being careful not to bend any of the plates on the electronic cell.
- 5. The electronic cell may be cleaned in a number of ways, but the best way is to soak it in a container of hot water into which has been dissolved a cup of dishwasher detergent or other cleaner that is safe for aluminum. After soaking for 10-15 minutes, agitate the filter (cell) in the solution to release some of the particles. Alkaline cleaners, such as our LA-99 heavy duty cleaning solution, may be used with care. Be certain to read and follow all directions carefully to avoid damage to the aluminum cell components caused by harsh chemical agents. LA-99 can be obtained through your dealer or by calling LakeAir directly.
- 6. It may be necessary, if the cell is extremely dirty, to repeat the soaking process or to take a small soft brush to the plates of the cell.

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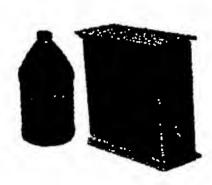
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- 4. Replace the cover assembly and secure with the fasteners.
- 5. Before plugging the unit in, make sure the power button is in the Off position. Plug in the line cord and turn the unit on to the High or Low position. If arcing occurs, turn the unit off until the electronic filter cell has been dried completely.

LA-99

Multi-purpose concentrated cell cleaning solution



INDICATIONS:

A heavy duty cleaner-degreaser that is non-toxic, non-flammable and biodegradeable. Removes dirt, carbonized grease, ink, oil, wax, soap scum and heavy soil from any surface.

APPLICATIONS:

Electronic air cleaner filter cells, tools, acoustic tiles, cement, stainless steel, ferrous metals, firebrick, engines and motor casings, washing machines, wax stripping and many other uses.

DIRECTIONS:

Use one (1) part "LA-99" cell cleaning solution to five to ten (5-10) parts water. NOTE: The use of hot water accelerates the cleaning action. For heavy grease, tobacco tar or nicotine, multiple applications may be necessary. Either soak cell in solution or spray on - wait for 5-10 minutes and rinse very well with clean water. Allow the cell to dry thoroughly before reinstalling into cell cleaner.

Caution must be used in cleaning aluminum or other soft metals. DO NOT allow prolonged contact and <u>immediately rinse very well with water</u>. Contact time should not exceed five (5) to ten (10) minutes and gloves must be worn when using LA-99.

INDUSTRIAL STRENGTH PRODUCT - USE WITH CARE AND KEEP OUT OF THE REACH OF CHILDREN.

Contains alkaline cleaners, builders and detergents. Use with sufficient ventilation. Do not ingest or let contact skin. In case of contact, flush affected area well with water.

TO INSURE PROPER PERFORMANCE READ BEFORE OPERATING. IF THE SUPPLY CORELECTRICAL COMPONENT OF THIS UNIT IS ORDO NOT ATTEMPT TO REPAIR IT YOURSELI

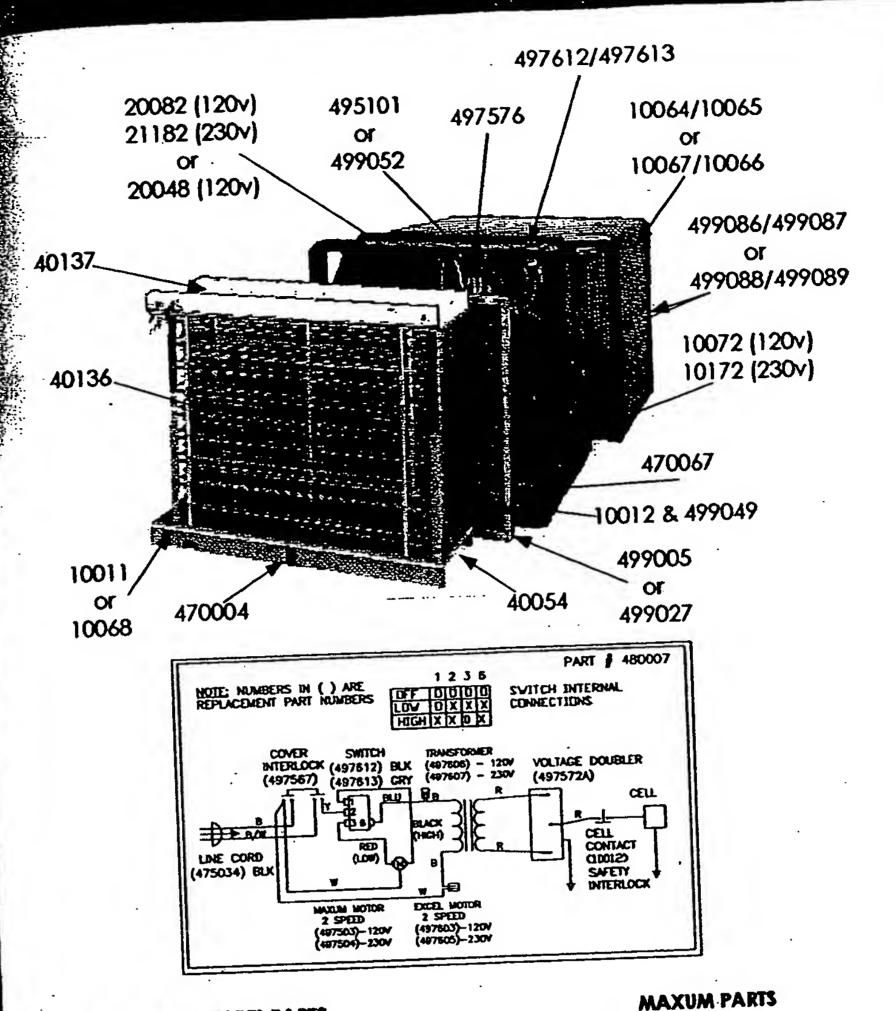
ERATI AROUN R MUST

TROUBLESHOOTING YOUR LakeAir ELECTRONIC AIR CLEANER

Some of the common causes for malfunction of your air cleaner are listed below. Review them should you have a problem, and perform the corrective measures listed here. If your LakeAir Electronic Air Cleaner is not restored to proper operation, contact your Dealer, nearest Authorized Service Center, or LakeAir.

Problem	Possible Cause	Possible Remedy
Air cleaner will not operate	Control switch is in Off Position	Depress power switch to High or Low
	Power cord not plugged in	Plug in power cord
	Blown fuse in household or breaker tripped.	Replace fuse or reset breaker
	Cover removed	Replace cover
	Cover fasteners not tight	Tighten fasteners snugly
Small volume of air discharged from unit	Extremely dirty electronic filter (cell)	Clean according to Instructions
	Plastic packing still on carbon after filter	Remove plastic wrap
Unit not effectively cleaning the air	Electronic filter dirty	Clean according to Instructions
	Electronic filter is not prop- erly installed	Check reassemble instructions
Continuous "arcing" or snap- ping noise	Excessive accumulation of dirt on the electronic filter	Clean according to Instructions
	Electronic filter still damp	Allow filter cell to dry Completely
	Bent or damaged plate on electronic filter. (cell)	Check and straighten
Odors more pronounced than usual	Service life of carbon after filter expired	Discard and replace the carbon after filter
	Air cleaner being used in a confined space	Open doors to the adjoining rooms

If any of the problems are not solved to your satisfaction, please contact your Dealer or LakeAir



	EXCEL PARTS	MANONTANTO	
	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Part# <u>Description</u>	
Port#	<u>Description</u>	10011 Bectronic Filter Cell	
10068	Bectronic Filter Cell	499005 Carbon Afterfilter	
499027	Carbon Afterlitter	100k4 Cover Assembly-Woodgrain	
10066	Cover Assembly-Woodgrain	10065 Cover Assembly-White	
10067	Cover Assembly-White	20048 Motor, 120v	
20082	Motor 120v	21148 Motor, 230v	
21182	Motor, 230v	495101 Fan Blade	
499052	Fan Blade	499088 Grille, Block	
499086	Grille, Block	499089 Grille, Grey	
499087	Grille, Grey	COMMON TO ROTH UNITS	
		TUISK TOU MEES MISH OUR CHAN AND LOST IS	
10012&	499049 Cell Contact Bracket	committee institutors w/screws (4/8)	
40054	Ion Connector Strop		1
470004	Ground Screw U-Clip		
	A Voltage Doubler		
		495159 White Cover Fostener	
497606		497613 Grey Rocker Switch	
497607	Transformer 230v	497612 Black Rocker Switch	
		7	1

LakeAir ELECTRONIC AIR CLEANERS 7 YEAR LIMITED WARRANTY

The complete LakeAir Electronic Air Cleaner is warranted by LakeAir International, Inc. to the original purchaser to be free from defects in material and workmanship under normal use and service for a period of one year from the date of purchase. In addition, LakeAir International, Inc. warrants the power supply module and transformer in the LakeAir Electronic Air Cleaner for an additional six (6) years, or a total of seven (7) years from the date of purchase to the original purchaser. LakeAir's liability is to be limited to repairing or replacing such products during the warranty period at its option, providing the product is sent prepaid to LakeAir International, Inc. or an Authorized Service Center and is deemed to the satisfaction of LakeAir International, Inc. to be defective in any part or portion.

This warranty is in lieu of any other warranty expressed or implied and of all other obligations or liabilities in connection with the sale of the described LakeAir Electronic Air Cleaner. In no case will any claim for consequential damages or labor expenses be allowed. This warranty does not apply to a LakeAir Electronic or any part thereof which has not been operated in accordance with the operating instructions herein contained; where components or other accessories not compatible with the LakeAir Electronic Air Cleaner have been used or attached to it; which has been subject to accident, unauthorized alteration, abuse, damage by flood, fire or acts of nature.

User's Responsibility

Please Note: Your warranty is subject to user responsibility. Some items and some conditions resulting from causes other than manufacturing defects are the responsibility of the user of the LakeAir Electronic Air Cleaner and are not covered by the warranty. These are:

- 1. To operate and maintain according to instructions.
- 2. Periodic checking and cleaning of unit. Failure to clean will void warranty.
- 3. Proper use of controls must be maintained or warranty will be voided.
- 4. Damage to unit from unsatisfactory operation because of blowing fuses, inadequate electrical service or operation on power supply other than that indicated on the rating plate, or incorrect electrical protection devices used.
- 5. Damage occurring during transportation or resulting from improper handling.
- 6. Damage due to accident or resulting from alteration or tampering.
- 7. Misapplication of product.



International, Inc. 1509 Rapids Drive Racine, Wisconsin 53404 THIS PAGE BLANK (USPTO)



Blueair AV 402



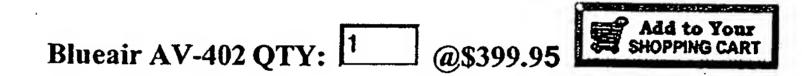
Home		Austin Air	Blueair	IQAir	Allergy Units	Chem/Bio Threat	Chemical Sensitivity	Tobacco Smoke
	Aboi Us	utContact Us	FAQGift	Track Y	Your er	Resou	rces Exchange With	
		Blu	eair AV	402	Blueair Gu	arantee 86	66-855-1238	

Blueair 402 Air Purifier

365 Sq-Ft Room

Only \$399.95

Very Quiet Performance



Standard Filter Pack QTY: 1

@\$59.00

Replace ever

Smokestop Filter Pack QTY: 1 @\$119.00

Add to Your SHOPPING CART

Replace ever

Blueair is the system for people living with allergies, asthma, or other respiratory conditions for anyone who wants cleaner, more breathable air. The 402 effectively purifies air in rooms large as 365 square feet. Using patented two-stage HEPASilentTM technology, it captures 99.5 of the tiniest 0.1 micron particles, including allergy-provoking pollen grains, dust mites, mol spores and pet dander particles.

This same filter technology earned the larger Blueair 501 Best of Class ranking in independe testing of Clean Air Delivery Rates. The 402 provides comparable performance for mid-sizes rooms.

Value-added features include quiet operation, low energy use, steel construction and easy maintenance: simply open the side, slide out used filters and drop in replacements every 6 m

Size: 21"H, 17" W x 10" D

Weight: 24 Lbs

HOW IT WORKS

Built-in carry handles

Power Consumption: 20 to 60

watts

4 speed control knob (on side)

Air Flow Rate:

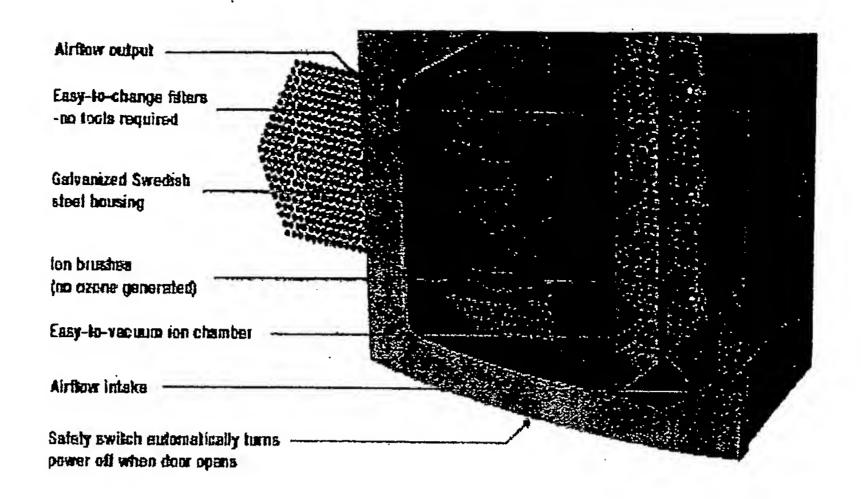
Blue "power on" light

-

- Speed 3 200 CFM
- Speed 2 125 CFM
- Speed 1 75 CFM

Noise Level:

- Speed 1 36 dB(A)
- Speed 2 45 dB(A)
- Speed 3 58 dB(A)





Superior Quality

Blueair is designed, engineered and built for people who exp very best and don't want to compromise on health, des function. The Blueair system housing is made of galv Swedish steel, rather than less durable plastic. The fan and I are manufactured by EBM, a maker of telecom and n equipment. Blueair systems offer an exceptionally long produ and carry a 10-year limited warranty

Quiet

Sophisticated materials and precision engineering allow Bluclean indoor air without the noise associated with less advunits. On the lowest setting, the units emit no more sound desktop computer. To achieve exceptionally quiet

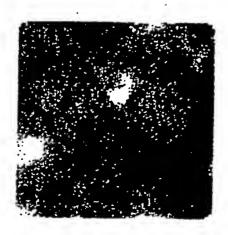
operation, Blueair¹s patented HEPASilent™filter technology particles two ways: with mechanical and electrostatic filters combination creates a filter system through which air flows Most air cleaners require a powerful, noisy

fan to pull air through densely packed filters. Since air easily through Blueair filter media, the fan doesn't have to w hard or as loud. Even the

housing is designed with quiet operation in mind, replacing ! sonant plastic with noise-muffling steel.



Instead of discharging a windy stream of filtered air, the F 501 diffuses air gently through an area six times greater th average air cleaner. Operating on its lowest setting, F produces virtually no noticeable draft, while still providi exceptional air exchange rate. Blueair's SurroundAirTM;



achieves peak performance without annoying drafts by draw dirty air from the sides and bottom, moving it through a less filter media, and releasing clean, filtered air from the side top.

Energy Efficient

Low Energy Cost

Blueair's phenomenally low power usage means you can resystem 24/7 without a jump

in electricity consumption. In fact, it costs about the same to the air in your home as it does to power a single light bulb: 0 watts on low to 95 watts on high.

Environmentally Aware

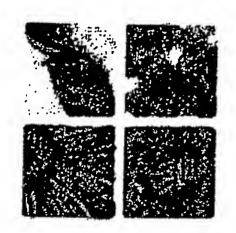
Blueair products offer exceptional performance without po the environment. Blueair replaces standard triclosan-coated or glass filter fibers, which can harm the environment released into the waste stream, with safer, nontoxic polyprop This revolutionary filter media is one of the least he plastics, producing only carbon dioxide and water as it decon Because polypropylene is waterproof, our filters naturally contamination from bacteria, viruses and mold, without ch additives or washes. Blueair even uses a special powder coat that produces no chemical outgassing.

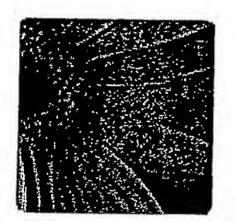
Award-Winning Swedish Design

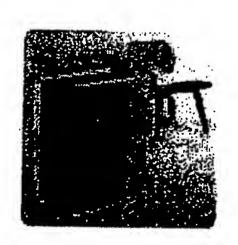
The union of visually pleasing form and effective functio hallmark of Swedish design, and Blueair is no exception. It contemporary look has earned Blueair one of the most presidesign awards in Scandinavia, the Excellent Swedish award. In fact, the Blueair resides in a permanent exhibit: National Museum in Stockholm. At Blueair, we design purification systems to meet your home's aesthetic star without sacrificing performance.

Easy to Use

Plug it in, select the speed setting, and forget it. Blueair wo quietly, at first you may find yourself wondering if it's turn Just check the bright blue power on light. Blueair filters required weekly additives or filter washing. The grilles and powdersteel exterior are easy to wipe clean, and won't pick up grin oily stains the way plastics can. When the filter needs











replaced (twice yearly), just open the lid, lift out the old filte drop the new ones in. No screws, hooks or tools and less the minute of your time are required. Used filters are 100% recy and release no toxins into landfills or the air.

Exchange L	inks with Us	Resource	es	
V	SA COLOR	THE COLUMN TO SERVICE SALES OF THE PARTY OF	VITTUALCART' SECURE SHOPPING	
		e Ordering ade on secure GSL	Secure Ordering via VirtualCart	
to insure th	at your trans secure		FREE SHIPPING in the Continental US	
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